CONTENTS

Vol. 1, No. 1-October 1961

A. V. Agafonov, I. E. Gel'ms, and E. I. Rabinovich: Choice of a catalyst for cracking residual petroleum fractions and an investigation of catalyst poisoning in the process, Khim. i Tekh. Topliv i Masel 5 (1960), U.S.S.R. **1**

C. S. Grove, Jr. and R. V. Jelinek, Syracuse University: Status of crystallization in the Soviet Union, (Review article), UNITED STATES. **6**

A. I. Leonov: Influence of the gaseous medium on the course of physicochemical processes in semiconductor oxides at high temperatures, Izvest. Akad. Nauk SSSR, Otdel. Khim. Nauk No. 9, 1529-1534 (1960), U.S.S.R. **13**

V. A. Kargin, V. A. Kabanov, V. P. Zubov, and I. M. Papisov: Polymerization of acetone, Doklady Akad. Nauk SSSR 134, No. 5, 1098-1099 (1960), U.S.S.R. **17**

Yu. A. Shlyapnikov, V. B. Miller, M. B. Neiman, E. S. Torsueva and B. A. Gromov: Thermo-oxidative degradation of polypropylene: A study of the comparative effectiveness of some antioxidants, Vysokomolekulyarnye Soedineniya 2, No. 9, 1409-1412 (1960), U.S.S.R. **19**

G. D. Efremova and R. O. Koroleva: The equilibrium solid-liquid-gas in the system melamine-ammonia-CO_2, Zhurnal Fizicheskoi Khimii, Vol. 35, No. 4, (1961), U.S.S.R. **22**

G. D. Efremova and G. G. Leont'eva: The solubility of melamine in solutions of dicyandiamide in liquid ammonia, Khimicheskaya Promyshlennost, No. 8, (1960), U.S.S.R. **24**

G. P. Korneichuk, V. A. Roiter, V. Ya. Vol'fson, Ya. V. Zhigailo, and A. Z. Lyubiteleva: Peculiarities of the catalytic oxidation of naphthalene: Investigation of the oxidation of naphthalene in deep beds of vanadia catalysts, Ukrain. Khim. Zhur. 26, No. 4, 432-439 (1960), UKRAINE, U.S.S.R. **26**

V. Ya. Vol'fson, G. P. Korneichuk, V. A. Roiter, and Ya. V. Zhigailo: Peculiarities of the catalytic oxidation of naphthalene: Kinetics of the oxidation of naphthalene in deep beds of vanadia catalysts, Ukrain. Khim. Zhur. 26, No. 5, 588-593 (1960), UKRAINE, U.S.S.R. **31**

S. G. Lyubetskii, B. A. Dolgoplosk, and B. L. Erusalimskii: Polymerization of ethylene under the influence of free radicals. Kinetics of ethylene polymerization in benzene and heptane solution, Vysokomolekulyarnye Soedineniya 3, No. 5, 734-739 (1961), U.S.S.R. **35**

M. S. Nemtsov: Kinetic relationships in the reaction of olefins with sulfuric acid, Khim. Prom. No. 8, 15-23 (1960), U.S.S.R. **39**

A. G. Kasatkin, S. Z. Kagan, and V. G. Trukhanov: Empirical equilibrium distribution equations for liquid-liquid systems, Khim. Prom. No. 6, 50-54 (1960), U.S.S.R. **50**

G. M. Panchenkov, Yu. M. Zhorov, and Yu. Yui-lin: Kinetic aspects of the catalytic cracking of heavy distillate stocks, Khim. i Tekhnol. Topliv i Masel 5, No. 11, 4-8 (1960), U.S.S.R. **55**

G.M. Panchenkov and Yu. M. Zhorov: A method for the determination of the rates and kinetic constants of complex chemical reactions in a flowing system, Doklady Akad. Nauk SSSR 135, No. 5, 1172-1175 (1960), U.S.S.R. **58**

G. M. Panchenkov, V. A. Skoblo, and Yu. M. Zhorov: Determination of effective diffusion coefficients in porous sorbents, Izvest. Vysshikh Ucheb. Zaved., Neft i Gaz 4, No. 1, 73-77 (1961), U.S.S.R. **61**

L. Yu. Artyukh, L. A. Vulis, and V. P. Kashkarov: Combustion of gas flowing at the surface of a plate, Inzhener.-Fiz. Zhur., 4, No. 3 (1961), KAZAKHSTAN, U.S.S.R. **64**

N. I. Gel'pern and V. P. Kvasha: Maintaining optimum temperature conditions in chemical reactors, Khimicheskaya Promyshlennost, No. 1, 51-56 (1961), U.S.S.R. (1961), U.S.S.R. **68**

Yu. G. Zelinski and V. V. Kafarov: Hydrodynamic conditions on open-grid (turbogrid) trays, Khimicheskaya Promyshlennost, No. 2, 122-126 (1961), U.S.S.R. 122-126 (1961), U.S.S.R. **74**

M. S. Furman, A. D. Shestakova, I. L. Arest-Yakubovich, and N. A. Lyubitsina: Oxidation of n-butane in the liquid phase under pressure, Khimicheskaya Promyshlennost, No. 1, 6-11 (1961), U.S.S.R. **79**

N. B. Yanovskaya and K. K. Potapova: Investigations of polyacrylonitrile fibers obtained at various drafts, Izvest. Vysshikh Ucheb. Zaved., Tekhnol. Tekstil. Prom., No. 3 (16) 24-29 (1960), U.S.S.R. **85**

P. V. Varentsov and M. S. Yufa: The movement of a bed of solid particles in rotary kilns, Khim. Mashinostroenie, No. 5, 22-26 (1959), U.S.S.R. **88**

Ágnes Somogyi, Istvan Géczy, and János Dobó: Graft copolymerization in the presence of benzoyl peroxide-dimethyl aniline with the aid of irradiation, Magyar Tud. Akad. Kem. Oszt. Közl., 15, 18-28 (1961), HUNGARY **93**

V. T. Slavyanskii, E. N. Krestnikova, and M. V. Proskuryakov: Study of bubble formation in glass melting under vacuum, Steklo i Keramika 16, No. 9, 25-29 (1959), U.S.S.R. **99**

L. M. Mirzoeva: Determination of solid phase concentration in a two-phase medium in upward motion in a vertical tube, Izvest. Akad. Nauk Azerbaidzhan. SSR No. 9, 11-19 (1957), AZERBAIDZHAN, U.S.S.R. **106**

F. Mihail, F. Gherghel, M. Stănescu, and S. Kornbaum: Chlorination of low-pressure polyethylene and its compounding with polyvinyl chloride, Revista de Chimie, 12, No. 5 (1961), ROMANIA. **110**

Vendelín Macho: Effect of sulfur and some of its compounds on the Oxo process, Chem. Zvesti 15, 181-190 (1961), CZECHOSLOVAKIA. **117**

A. A. Berlin, L. I. Boguslavski, R. Kh. Burshtein, N. G. Matveeva, A. I. Sherle, and N. A. Shurmovskaya: Some electrophysical properties of polymer complexes of tetracy anethylene with metals, Doklady Akademii Nauk SSSR (Academy of Sciences, USSR. Reports), 136, No. 5, 1127-1129 (1961). Physical Chemistry, U.S.S.R. **122**

Ryszard Chudzikiewicz: Factors affecting the degree of mixing of granular materials, Przem. Chem. 40, 48-51 (1961), POLAND: **124**

Yu. N. Vol'nov and B. V. Ozimov: Reflection spectra and their application to the study of sorption processes, Zhur. Vsesoyuz. Khim. Obshchestva im. D. I. Mendeleeva 5, No. 5, 591-591 (1960), U.S.S.R. **129**

I. A. Uskov, Yu. G. Tarasenko, and T. A. Kusnitsyna: Compounding of dissolved polymethylmethacrylate with fillers, Vysokomolek. Soed. 3, No. 1, 37-40 (1961), UKRAINE, U.S.S.R. **132**